

Claims

1. A method for establishing a call in a telecommunications network (100), the telecommunications network (100) comprising a first and a second packet network section (110, 120), a TDM transit network section (140) coupled to the first and second packet network sections (110, 120), and a wide area packet network (130) coupled to the first and second packet network sections (110, 120), the method comprising the steps of:
 - providing, at a first terminal equipment (112) coupled to said first packet network section (110), dialed digits, the dialed digits representing a directory number of a second terminal equipment (122) coupled to said second packet network section (120);
 - initiating the setup of a first connection through the TDM transit network (140) to the second packet network (120) in accordance with said dialed digits, wherein during call setup at least one message or information element is conveyed to the second packet network section (120), the at least one message or information element being indicative of the first terminal equipment's packet capabilities and/or an address of a first controlling device (116, 114A) controlling the call in the first packet network section (110);
 - in the second network (120), receiving said at least one message or information element at a second controlling device (126, 124A) controlling the call in the second packet network section (120); and
 - establishing, by means of the first and second controlling device (116, 114A, 126, 124A) and the information extracted from said at least one message or information element, a second connection (10) between the first and second terminal equipment (112, 122) through the wide area packet network (130).

2. The method of claim 1, further comprising the step of releasing the TDM transit network section resources utilized during call setup through the TDM transit network section (140).

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3. The method of any of the preceding claims, wherein the at least one message or information element is further indicative of a vendor of said first terminal equipment (112).

10 4. The method of any of the preceding claims, wherein the at least one message or information element is the user-to-user information parameter or the application transport parameter of the ISUP protocol.

15 5. The method of claim 4, wherein the application transport parameter conveys the first terminal equipment's packet capabilities and/or the address of a first controlling device controlling the call in the first packet network section encoded as ISDN subaddress.

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6. A telecommunications network (100), comprising:

- a first and a second packet network section (110, 120);
 - a TDM transit network section (140) coupled to the first and second packet network sections (110, 120);
 - a wide area packet network (130) coupled to the first and second packet network sections (110, 120);
 - a first terminal equipment (112) coupled to said first packet network section (110) for providing dialed digits, the dialed digits representing a directory number of a second terminal equipment (122) coupled to said second packet network section (120);
 - means for initiating the setup of a first connection through the TDM transit network (140) to the second packet network (120) in accordance with said dialed digits,
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- wherein during call setup at least one message or information element is conveyed to the second packet network section (120), the at least one message or information ele-

- ment being indicative of the first terminal equipment's packet capabilities and/or an address of a first controlling device (116, 114A) controlling the call in the first packet network section (110);
- 5 - in the second network (120), means for receiving said at least one message or information element at a second controlling device (126, 124A) controlling the call in the second packet network section (120); and
- in the first and/or second controlling device (116, 126, 10 114A, 124A), means for establishing a second connection between the first and second terminal equipment (112, 122) through the wide area packet network (130) in accordance with the information extracted from said at least one message or information element.
- 15 7. The telecommunications network (100) of claim 6, further comprising means for releasing the TDM transit network section resources utilized during call setup through the TDM transit network section (140).
- 20 8. The telecommunications network (100) of any of claims 6 or 7, wherein the at least one message or information element is further indicative of a vendor of said first terminal equipment (112).
- 25 9. The telecommunications network (100) of any of claims 6 through 8, wherein the at least one message or information element is the user-to-user information parameter or the application transport parameter of the ISUP protocol.
- 30 10. The telecommunications network (100) of claim 9, wherein the application transport parameter conveys the first terminal equipment's packet capabilities and/or the address of a first controlling device controlling the call in the first 35 packet network section encoded as ISDN subaddress.

11. A controlling device (116, 114A) for controlling calls in a first packet network section or packet network (110), comprising:

- means for interfacing with a TDM transit network section (140), said TDM transit network section (140) further coupled to a second packet network section (120);
- means for interfacing with a wide area packet network (130), said wide area packet network (130) also coupled to said second packet network section (120);
- 10 - means for initiating the setup of a first connection through the TDM transit network (140) to the second packet network (120) in accordance with digits dialed at a first terminal equipment (112) coupled to said first packet network section (110), wherein the dialed digits represent a directory number of a second terminal equipment (122) coupled to said second packet network section (120) and wherein during call setup at least one message or information element is created by the controlling device (116, 114A) and conveyed to the second packet network section (120), the at least one message or information element being indicative of the first terminal equipment's packet capabilities and/or an address of the controlling device such that upon receiving said at least one message or information element at a similar controlling device (126, 124A) controlling the call in the second packet network section (120), a second connection (10) between the first and second terminal equipment through the wide area packet network (130) is establishable in accordance with the information extracted from said at least one message or information element.

12. A controlling device (116, 114A) for controlling calls in a first packet network section or packet network (110), comprising:

- 35 - means for interfacing with a TDM transit network section (140), said TDM transit network section (140) further coupled to a second packet network section (120);

- means for interfacing with a wide area packet network (130), said wide area packet network (130) also coupled to said second packet network section (120);
 - means for responding to an incoming connection setup received from the TDM transit network (140) but originating from second packet network (120) in accordance with digits dialed at a second terminal equipment (122) coupled to said second packet network section (120), wherein the dialed digits represent a directory number of a first terminal equipment (112) coupled to said first packet network section (110) and wherein during call setup at least one message or information element created by the controlling device (126, 124A) in the second packet network section is conveyed to the controlling device (116, 114A), the at least one message or information element being indicative of the second terminal equipment's packet capabilities and/or an address of the controlling device (126, 124A) in the second packet network section such that upon receiving said at least one message or information element at controlling device (116, 114A), a second connection (10) between the first and second terminal equipment through the wide area packet network (130) is establishable in accordance with the information extracted from said at least one message or information element.
13. The controlling (116, 126, 114A, 124A) device of any of claims 11 or 12, further comprising means for releasing the TDM transit network section resources utilized during call setup through the TDM transit network section (140).
14. The controlling device (116, 126, 114A, 124A) of any of claims 11 through 13, wherein the at least one message or information element is further indicative of a vendor of said first terminal equipment (112).
15. The controlling device (116, 126, 114A, 124A) of any of claims 11 through 14, wherein the at least one message or in-

formation element is the user-to-user information parameter or the application transport parameter of the ISUP protocol.

16. The controlling device (116, 126, 114A, 124A) of claim
5 15, wherein the application transport parameter conveys the first terminal equipment's packet capabilities and/or the address of a first controlling device controlling the call in the first packet network section encoded as ISDN subaddress.